



## NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H111041

**Mode:** Highway

**Status:** Submitted

### NC-48

**From/Cross Street:** Homestead Road

**Specific Improvement Type:** 1 - Widen Existing Roadway

**To:** Red Oak / Battleboro Road

**Project Category:** Regional Impact

**Length:** 2.52

**TIP#:**

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$18,427,000

#### Description:

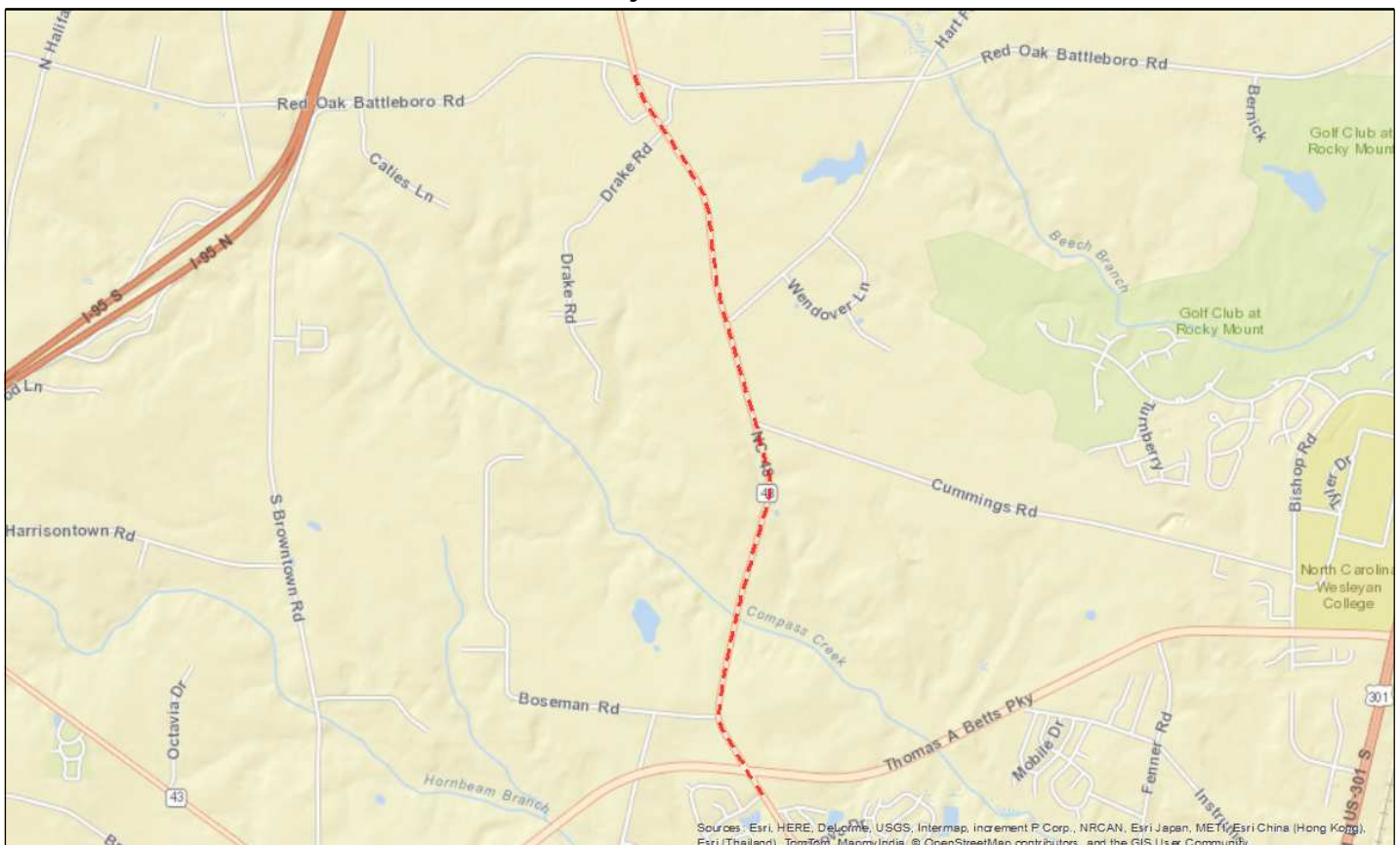
Widen NC 48 from 2 Lane Road to 4 Lane Divided Highway.

**Division(s):** Division 4

**County(s):** NASH

**MPOS(s)/RPO(s):** Rocky Mount Urban Area MPO

### Project Location



**Statewide Mobility Total Score: 0**

| <b>Quantitative Score</b>                   | <b>Division Engineer<br/>Local Input Points</b> | <b>MPO/RPO Local<br/>Input Points</b> |
|---|---|---------------------------------------|
| <b>Totals: Weight: 0% Weighted Score: 0</b> | N/A   | N/A                                   |

**Regional Impact Total Score: 28.3**

| <b>Quantitative Score</b>   | <b>Division Engineer<br/>Local Input Points</b> | <b>MPO/RPO Local<br/>Input Points</b> |
|---|---|---------------------------------------|
| Congestion (V/C) (15%) 21.55<br>Safety (15%) 67.01<br>Lane Width (10%) 0.00<br>[Paved] Shoulder Width (10%) 0.00<br>[Travel Time] Benefit/Cost (20%) 0.07 | Percent: 15%<br>Points: 0                       | Percent: 15%<br>Points: 100           |
| <b>Totals: Weight: 70% Weighted Score: 13.3</b>   |   |                                       |

**Division Needs Total Score: 8.86**

| <b>Quantitative Score</b>   | <b>Division Engineer<br/>Local Input Points</b> | <b>MPO/RPO Local<br/>Input Points</b> |
|---|---|---------------------------------------|
| Congestion (V/C) (10%) 21.55<br>Safety (10%) 67.01<br>[Travel Time] Benefit/Cost (10%) 0.07<br>Lane Width (10%) 0.00<br>[Paved] Shoulder Width (10%) 0.00 | Percent: 25%<br>Points: 0                       | Percent: 25%<br>Points: 0             |
| <b>Totals: Weight: 50% Weighted Score: 8.86</b>   |   |                                       |

**Project Data \*****Existing Conditions**

|   |                 |
|---|-----------------|
| Existing Cross-Section:                     |                 |
| Speed Limit:                                | 55              |
| Length (miles):                             | 2.52            |
| Facility Type:                              | Arterial        |
| Access Control:                             | None            |
| Functional Classification:                  | Major Collector |
| Terrain Type:                               | Rolling         |
| Lane Width:                                 | 12              |
| Paved Shoulder Width:                       | 2               |
| Roadway has Curb & Gutter?                  | No              |
| Volume (AADT):                              | 5133.18         |
| Capacity:                                   | 15800           |
| Volume/Capacity Ratio:                      | 0.32            |
| % Autos:                                    | 96%             |
| % Trucks:                                   | 4%              |
| Truck Volume:                               | 181.3           |
| Crash Density:                              | 82.24           |
| Crash Severity:                             | 61.44           |
| Critical Crash Rate:                        | 57.38           |
| Crash Frequency:                            | 0               |
| Severity Index:                             | 0               |
| County Tier Designation:                    | 2               |
| Non-Interstate STRAHNET Route?              | No              |
| Average Commuting Time:                     | 19              |
| Existing Median Type (for Cost Estimation): | Undivided       |
| Pavement Condition Rating:                  | 86              |
| Actual Congested Speed:                     | 42              |
| Travel Time Index:                          | 1.31            |

**Project Benefits**

|  |  |
|--|--|
| Project Cross-Section:                                 | 4B - 4 Lane Divided (23' Raised Median) with Paved Shoulders and Sidewalks |
| Speed Limit:   | 55   |
| Length (miles):  | 2.52   |
| Facility Type:   | Arterial   |
| Access Control:  | Partial  |
| Functional Classification:                             | Major Collector  |
| Terrain Type:  | Level  |
| DOT Design Lane Width:                                 | 12   |
| DOT Design Paved Shoulder Width:                       | 2  |
| Travel Time Savings for 30 Years (Total):              | 61174.53   |
| Travel Time Savings for 30 Years (Autos):              | 59013.86   |
| Travel Time Savings for 30 Years (Trucks):             | 2160.67  |
| Long-Term Employment:                                  |  |
| % Change in Economy:                                   |  |
| Provides Direct Connection to Transportation Terminal? | No   |
| Does project upgrade how the roadway functions?        | No   |
| In CTP or LRTP?  | No   |
| CTP/LRTP Name:   |  |
| CTP/LRTP Completion Year:                              |  |
| Submitted by:  | Division 4   |

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

**Project Ownership****Division**

| <b>Division</b>              | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|------------------------------|----------------|------------------------|-----------------------|
| Division 4                   | 100%           | 0                      | 0                     |
|                              | 0%             | 0                      | 0                     |
|                              | 0%             | 0                      | 0                     |
| <b>TOTAL Division Points</b> |                | <b>0</b>               | <b>0</b>              |

**MPO/RPO**

| <b>MPO/RPO</b>              | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|-----------------------------|----------------|------------------------|-----------------------|
| Rocky Mount Urban Area MPO  | 100%           | 100                    | 0                     |
|                             | 0%             | 0                      | 0                     |
|                             | 0%             | 0                      | 0                     |
| <b>TOTAL MPO/RPO Points</b> |                | <b>100</b>             | <b>0</b>              |

**Project Cost and Source**

|                        |                     |                      |
|------------------------|---------------------|----------------------|
| Construction Cost:     | \$16,758,000        | TIP Unit             |
| Right-of-Way Cost:     | \$1,490,000         | Cost Estimation Tool |
| Utilities Cost:        | \$179,000           | Cost Estimation Tool |
| Total Project Cost:    | \$18,427,000        |                      |
| Other Funding:         | \$0                 | None                 |
| <b>Cost to NCDOT :</b> | <b>\$18,427,000</b> |                      |